

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. **(Currently amended)** A multi-functional electronic communication and medical diagnostic device, comprising:

a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to generate and display quantified vibration for use in a medical diagnosis ~~in response to a signal generated by the device.~~

2. **(Canceled)**

3. **(Canceled)**

4. **(Previously presented)** The device of claim 1, wherein the device functions as a probe for detecting neuropathy in a subject.

5. **(Previously presented)** The device of claim 1, wherein the component generates vibration of a fixed magnitude.

6. **(Previously presented)** The device of claim 1, wherein the component generates a plurality of sets of vibration each of a fixed magnitude.

7. **(Previously presented)** The device of claim 1, wherein the component generates vibration of a variable magnitude.

8. **(Previously presented)** The device of claim 7, wherein the magnitude is variable in a linear, curvilinear, or step-like manner.

9. **(Previously presented)** The device of claim 1, wherein the component generates vibration at a fixed frequency.

10. **(Previously presented)** The device of claim 1, wherein the component generates a plurality of sets of vibration each at a fixed frequency.

11. **(Previously presented)** The device of claim 1, wherein the component generates vibration at a variable frequency.

12. **(Currently amended)** The device of claim 4, wherein the probe can be used to determine one or more of a vibration perception threshold, a vibration disappearance threshold, ~~and or~~ a vibration threshold, the device further comprising an audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold in a subject to detect neuropathy.

13. **(Currently amended)** The device of claim 12, further comprising at least one component for storing and/or processing data including audio or visual display to ~~indicate~~ one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.

14. **(Currently amended)** A multi-functional electronic communication and medical diagnostic device, comprising:

a component for generating vibration in first and second modes, the component being adapted to generate and display quantified vibration in the second mode; and

a selector for selecting one or the other of said first and second modes ~~for utilizing in an electronic communication and the other of said first and second modes for utilizing in a medical diagnosis;~~

wherein in the first mode ~~one of said first and second modes~~ the device functions as a portable electronic device comprising one or more of a cellular phone, pager, and beeper; ~~and other portable electronic device operative to transmit and/or receive data and/or voice signals;~~ and

wherein in the second mode ~~other of said first and second modes~~, the device operates as a probe for detecting neuropathy in a subject.

15. **(Canceled)**

16. **(Canceled)**

17. **(Currently amended)** The device of claim 14, wherein said device in said second mode ~~other of said first and second modes~~ generates vibration of a fixed magnitude.

18. **(Currently amended)** The device of claim 17, wherein said device in said second mode ~~other of said first and second modes~~ generates a plurality of sets of vibrations each of a fixed magnitude.

19. **(Currently amended)** The device of claim 14, wherein said device in said second mode ~~other of said first and second modes~~ generates vibration of a variable magnitude.

20. **(Previously presented)** The device of claim 19, wherein the magnitude varies in a linear, curvilinear, or step-like manner.

21. **(Currently amended)** The device of claim 14, wherein said device in said second mode ~~other of said first and second modes~~ generates vibration at a fixed frequency.

22. **(Currently amended)** The device of claim 14, wherein said device in said second mode ~~other of said first and second modes~~ generates a plurality of sets of vibration each at a fixed frequency.

23. **(Currently amended)** The device of claim 14, wherein said device in said second mode ~~other of said first and second modes~~ generates vibration at a variable frequency.

24. **(Currently amended)** The device of claim 14, wherein the probe can be used to determine one or more of a vibration perception threshold, a vibration disappearance threshold, and ~~or a vibration threshold, the device further comprising audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold in a subject to detect neuropathy.~~

25. **(Currently amended)** The device of claim 24[[14]], further comprising at least one component for storing and/or processing data including ~~a) audio or visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.~~

26. **(Currently amended)** An electronic communication device for detecting neuropathy in a subject, comprising:

a component for generating and displaying quantified vibration of a fixed or variable magnitude for use as part of a medical test of nerve function;

wherein when the device is applied to a subject, threshold for the perception or disappearance of vibration can be determined as a measure of nerve function to detect neuropathy; and

wherein the device further functions as a portable electronic device comprising one or more of a pager, beeper, or and cellular phone, and other portable electronic device operative to transmit and/or receive data and/or voice signals.

27. **(Canceled)**

28. **(Currently amended)** A medical diagnosis method, comprising:
providing a multi-functional electronic communication and medical diagnostic device, the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration to be used in medical diagnosis;

generating vibration;

applying the device to a subject; and

diagnosing a medical condition based on detection or non-detection of vibration by the subject.

29. **(Canceled)**

30. **(Original)** The method of claim 28, further comprising: determining a threshold for the subject's ability to detect vibration by generating a predetermined magnitude or frequency.

31. **(Original)** The method of claim 30, wherein: the threshold is graded low if the subject detects vibration, and high if the subject cannot detect vibration.

32. **(Original)** The method of claim 28, further comprising: determining a vibration perception threshold for the subject's ability to detect vibration by increasing the magnitude or frequency of vibration.

33. **(Original)** The method of claim 32, wherein: the vibration perception threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of the medical condition.

34. **(Original)** The method of claim 28, further comprising: determining a vibration disappearance threshold for the subject's ability to no longer detect vibration by decreasing the magnitude or frequency of vibration.

35. **(Original)** The method of claim 34, wherein: the vibration disappearance threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of the medical condition.

36. **(Original)** The method of claim 28, wherein: the medical condition comprises neuropathy.

37. **(Original)** The method of claim 36, wherein: the step b) comprises generating vibration of a predetermined magnitude or frequency equal to about 95th-97th percentiles in a normal population.

38. **(Original)** The method of claim 37, wherein: detection of vibration by the subject indicates an absence of neuropathy, and non-detection indicates a presence of neuropathy.

39. **(Original)** The method of claim 30, wherein: the magnitude or frequency is fixed.

40. **(Original)** The method of claim 30, wherein: the magnitude or frequency is variable in a linear, curvilinear, or step-like manner.

41. **(Previously presented)** The method of claim 36, wherein: the device is applied to an extremity of the subject.

42. **(Currently amended)** A method of detecting neuropathy in a subject, comprising:

providing a multi-functional electronic communication and medical diagnostic device, the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration to be used in detecting neuropathy;

generating vibration of a predetermined magnitude or frequency as a threshold stimulus and applying the device to a subject; and

allowing the subject to indicate whether or not vibration can be detected;

wherein the absence or presence of neuropathy is indicated by the subject's ability to detect or not detect the vibration.

43. **(Canceled)**

44. **(Original)** The method of claim 42, wherein: the threshold stimulus is equal to about 95th – 97th percentiles in a normal population.

45. **(Currently amended)** The method of claim 42, wherein: the step of generating vibration ~~b)~~ comprises generating vibration of a fixed magnitude or frequency.

46. **(Currently amended)** The method of claim 42, wherein: the step of generating vibration ~~b)~~ comprises generating vibration of a variable magnitude or frequency.

47. **(Original)** The method of claim 46, further comprising: determining a vibration perception threshold for the subject's ability to detect vibration by increasing the magnitude or frequency of vibration.

48. **(Original)** The method of claim 47, wherein: the vibration perception threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of neuropathy.

49. **(Original)** The method of claim 46, further comprising: determining a vibration disappearance threshold for the subject's ability to no longer detect vibration by decreasing the magnitude or frequency of vibration.

50. **(Original)** The method of claim 49, wherein: the vibration disappearance threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of neuropathy.

51. **(Currently amended)** A medical diagnosis method, comprising:
providing a multi-functional electronic communication and medical diagnostic device, the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, and beeper, ~~and other portable electronic communication device operative to transmit and/or receive data and/or voice signals~~, the component being further adapted to

generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration for use in medical diagnosis;

applying the device to a subject and generating vibration; and

diagnosing a medical condition based on detection or non-detection of vibration by the subject.

52. **(Canceled)**

53. **(Currently amended)** A method of detecting neuropathy in a subject, comprising:

providing a multi-functional electronic communication and medical diagnostic device, the device comprising a component for generating vibration, the component being adapted to generate vibration in response to a remote wireless signal when the device is operated as a portable electronic communication device comprising one or more of a cellular phone, pager, beeper, and other portable electronic communication device operative to transmit and/or receive data and/or voice signals, the component being further adapted to generate vibration for use in a medical diagnosis in response to a signal generated by the device;

selecting a mode of vibration for use in detecting neuropathy;

applying the device to a subject and generating vibration of a predetermined magnitude or frequency as a threshold stimulus; and

allowing the subject to indicate whether or not vibration can be detected;

wherein the absence or presence of neuropathy is indicated by the subject's ability to detect or not detect the vibration.

54. **(Canceled)**